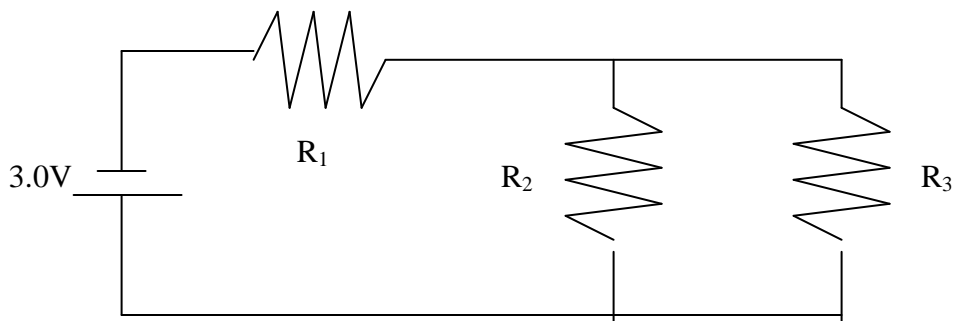


Physics 12 Current Electricity Quiz

Name _____

1. A cell with an internal resistance of $0.8\ \Omega$ is connected to a $12.3\ \Omega$ light bulb.
 - a) If the power output of the light bulb is $15\ \text{W}$, what is the current through the bulb?
 - b) What is the emf of the cell?
 - c) How much charge leaves the cell every minute?

2. Given the following circuit with $R_1=20\ \Omega$, $R_2=20\ \Omega$, and $R_3=30\ \Omega$.



- a) Draw on the diagram where you would place a voltmeter and an ammeter to measure the voltage across R_3 and current through R_3 .
- b) What would the voltmeter and ammeter read for R_3 ?